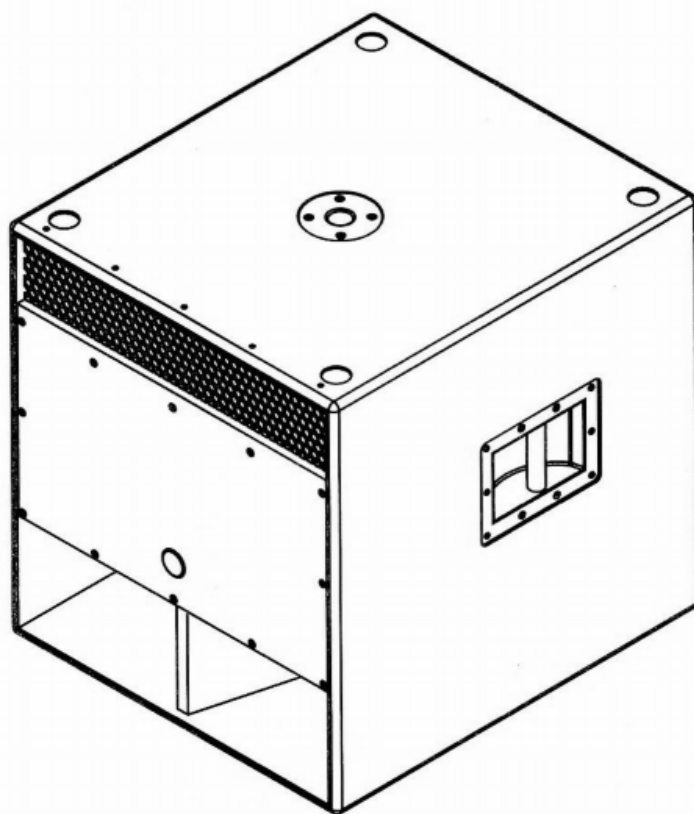


INVO TONE

USER'S MANUAL

ASX18SA

ACTIVE SUBWOOFER SPEAKER ENCLOSURES



IMPORTANT SAFETY INSTRUCTION



TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.

This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

- ⊕ Protective Ground Terminal
- ~ AC mains (Alternating Current)
- ⚡ Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol.
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.



Dispose of this product should not be placed in municipal waste and should be separate collection.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart / equipment combination to avoid possible injury from tip-over.

12. Permanent hearing loss may be caused by exposure to \ extremely high noise levels. The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level. These are shown in the following chart:

HOURS X DAY	SPL	EXAMPLE
8	90	Small gig
6	92	train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1,5	102	
1	105	
0,5	110	
0,25 or less	115	Rock concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of heat. To avoid the potential damage of heat, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

IN THIS MANUAL

1. INTRODUCTION	1
2. QUICK START - SPEAKER CABINETS	4
3. CONNECTIONS	5
4. WIRE CONNECTIONS	6
5. THCHNICAL SPECIFICATION	7

1. INTRODUCTION

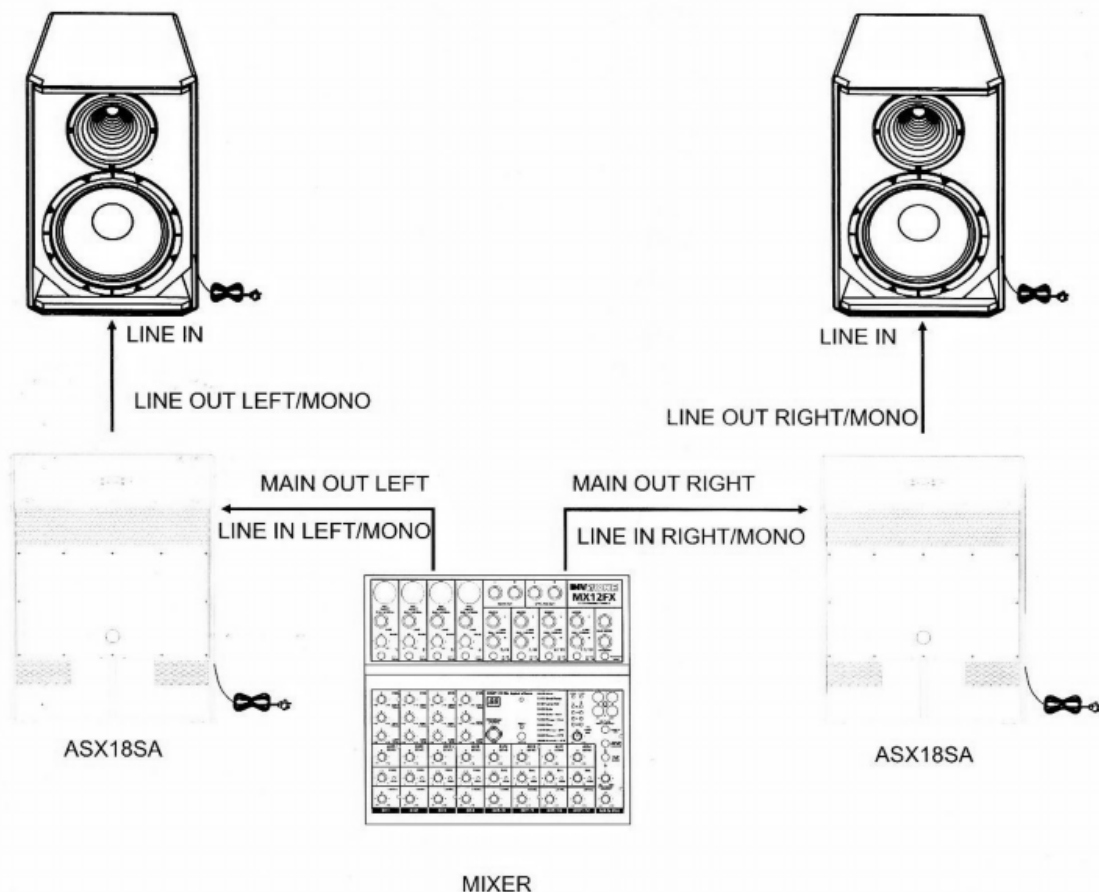
Thank you for your purchasing one of our AS series enclosures. It is just one of the many INVOTONE products that a talented, multinational Team of Audio Engineers and Musicians have developed with their great passion for music. Your ASX18SA speaker cabinet is capable of very high sound pressure level and it has been created to give you a performance that is better than any loudspeaker in this range. They are flexible in their configurations and can be used with single and multiple subwoofers.

Enjoy your ASX18SA speaker and make sure to read this Manual carefully before operation!

2. QUICK START - ACTIVE SPEAKER CABINETS

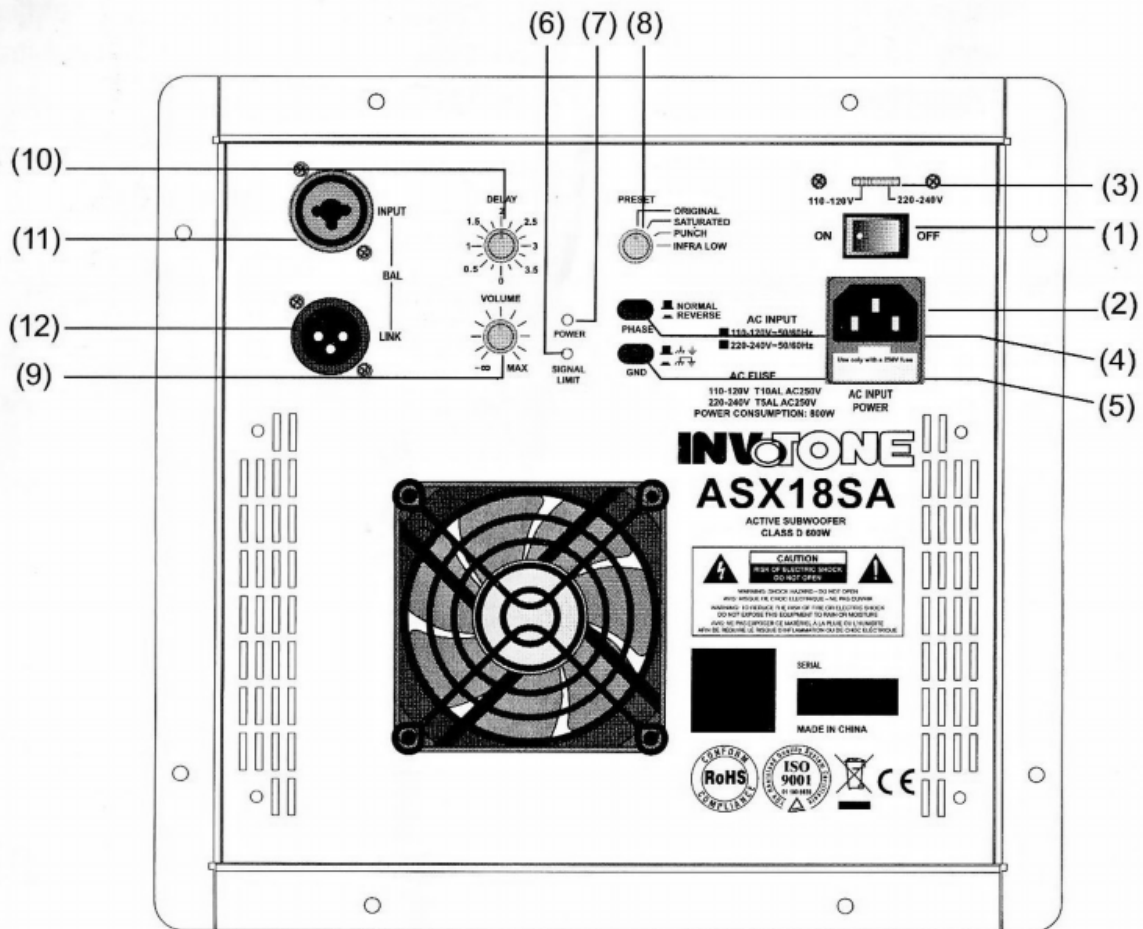
Active, two subwoofers & two satellite speakers. In this example, the mixer is connected to the AS subwoofers and then a 125 Hz covered line signal is sent to the respective satellites. In this way, the high energetic content of the low frequencies is limited to the subwoofer and the satellite's woofer act like a mid-woofer. As a consequence the satellites built-in amplifier is not stressed by low frequency content.

- 1). Connect one side of signal cable at your mixer into Main Output Left/Right (with 1/4" Jack or XLR) and the other side of the cable into the Left/Mono Input (COMBO) of the AS active subwoofers; with the second signal cable connect the Left/Mono Line Output of the subwoofer (Stereo/Mono-Jack or XLR) to the Line input (COMBO) of the active satellite (with Stereo - Jack or XLR).
- 2). Connect the power cord to mains.
- 3). Turn on your mixer first, then the active speaker cabinets.
- 4). Turn up the volume control of the active speaker cabinets.
- 5). Use PFL function to get the proper input level for the mixer, and adjust the Main Mix Level control to manipulate the output level.
- 6). After use, turn off your active speaker cabinets first, then the mixer.



3. CONNECTIONS

ACTIVE SUBWOOFER: ASX18SA



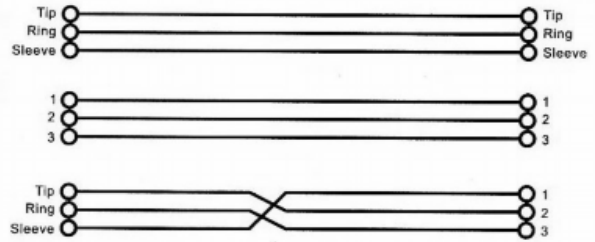
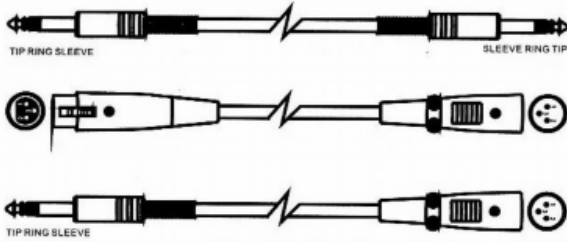
- (1) ON-OFF main power switch
- (2) Input AC power socket with main fuse
- (3) 120-240Volt in switching power supply mode
- (4) PHASE Switch Reverse the Polarity of the subwoofer output
- (5) Ground Lift Switch
- (6) SIGNAL/LIMIT, Red LED, indicate ON status
- (7) POWER, Green LED, indicate ON status
- (8) The ASX18SA is supplied with 4 presets, select your favorite among
 - original-saturated-punch-infra low.
- (9) VOLUME main power amplifier control
- (10) Delay the audio signal for a set period of time, with the ASX18SA subwoofer, it's used
 for aligning delay stacks, balcony fills, etc, not as an effect, delay times range from
 0ms to 3.5ms.
- (11) LINE IN (left or right) ON XLR CONNECTOR
- (12) LINK (left or right) ON XLR CONNECTRO

4. WIRE CONNECTIONS

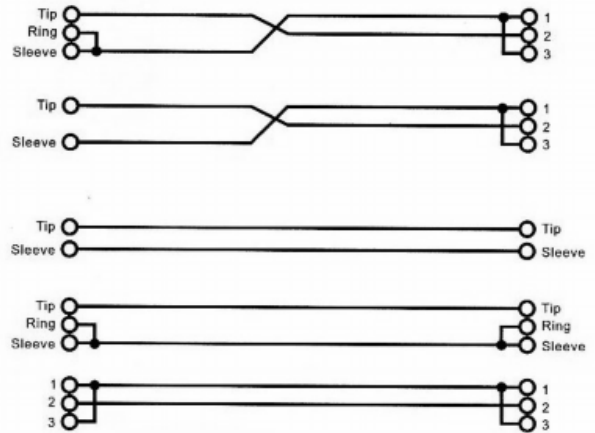
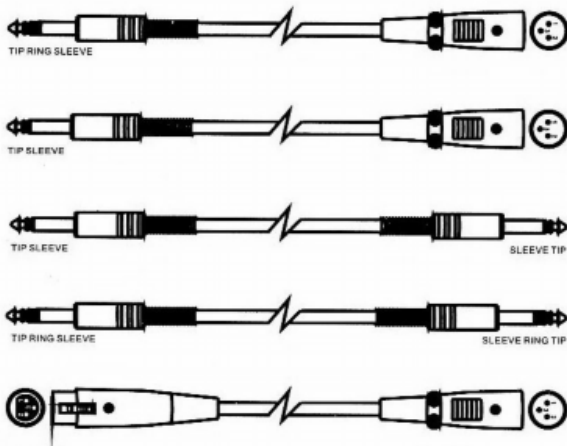
- For Active Speaker Cabinets

As to these circumstances, audio connections is mostly intended for the signal flow, so, determine the wire configuration according to your real application system and its connecting facility. Normally, you have the following choices:

• Balanced



• Unbalanced



5. TECHNICAL SPECIFICATION

ASX18SA	18" Active Subwoofer Speaker Cabinet
Power System	600Watts RMS (Class D)
Frequency Response (-10dB)	36Hz-120Hz
Maximum SPL @ 1m	123dB Continuous / 126dB Peak
Transducer Low	18" Ferrite woofer , 3" Voice coil, with long excursion
EQ Presets	DSP-EQ Preset (original, saturated, punch, infra low)
Input Connector	LINE-COMBO / LINK-XLR-M Balanced(15k ohm)
External Control	Volume Control / EQ Preset / Delay/ Phase Switch / POWER ON with Green LED / Clip Limiter with Red LED / Ground Lift
Electronic Protections	Thermal/ Convection-Fan / Overload / Lim. / Compressor
Power Supply	120-240Volt in Switching Power mode
Enclosure Construction	Plywood cabinet, Metal handles, Resistant black paint, Metal grille and Rubber feet
Mounting	One standard metal pole-mount plus two metal handles
Dimensions (HxWxD)	779mm x 698mm x 752mm (30.7" x 27.5" x 29.6")
Net Weight	38.0kg / 83.8 lbs
Shipping Weight	45.2 kg / 99.6 lbs